



# The Packet and Hydromatic Propellers

## The Packer and Mydromanic Propeners

The Air Force has a new and versatile corgo and troop corrier—the Fairchild Packet C-119—which is teamed with Hamilton Standard's Hydromatic propellers to carry heavy loods, swiftly and economically, over long distances. Propeller features include reversible pitch, hollow steel blodes with internal electric details and outomatic synchronization—all products of Hamilton Standard's painstoking research, engineering and development.

# HAMILTON STANDARD PROPELLERS

EAST HARTFORD, CONNECTICUT





enough for service speeds. How fare it it's ring the Manacher clears to the speed packed man a small volume was scooled.

The denumic power of the Westaghouse Yanker Turbujess represents six ream of cossuch and development . . . s consumer while to make engines that will estimate









- Complete radio facilities
- A new advancement in reliability

SEXTEEN more the loop fait need by previou palon for a fight continuous accumulationers in rules and electronics. Here, at Ser the CINE-SEXTEEN new at your names: B.C.A. distributor's.

For descriptive bulletin, send card to Date: \$G.

· Sprengiament - Complete coverage of mand . Proc Crome Reages - Common raving 200-\* Marker Bennen - There marker menals \* Tower Communications—Covers 200-100 kg · Leadquarker Output - For calculational conductation 4 between For large orbits, at two cockpan. . Lies Direction-Finding-Operates to exher



RADIO CORPORATION of AMERICA ENGINEERING PRODUCTS DEPARTMENT, CAMDEN, N.J. AVIATION WEEK, July 19, 2648

SPECIFY DELTARESTON' PLUS extra toughnes

# VIATION

HEAT PROTECTION Vol. of No. 1 fele 19, 1945 Heading News . . . . . . . . . . . 11 Aviation Calendar ......... 17 Briefor for Dealers ..... 44 Industry Observer ......... 17 Engagering-Production 18 Nov Products 33 Editorial 55

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Longuere 6-2021; National Press Ebig. Washington 5, D. C., Phone National 5054 

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PRINCIPLE PROPERTY OF LIVE NAME OF THE PRINCIPLE PARTY AND PERSONS ASSESSED. AIRCRAFT WIRE Built to hout the book GENERAL (A) ELECTRIC

Aircraft ball bearing development in step with aviation progress

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AVIATION WELK, (uly 29, 1948)

Bearing Company, New Britain, Conn. AVIATION WEEK, fully 19, 1540



Crankshaft forging for the most powerful piston-type aircraft engine in production in the world.

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### THE AVIATION WEEK

### Longer Life for Feederlines

Despite raing criticism from an economy-minded Cengross and a cost-corocions Post Office Department, most tenderfinin have an excellent chance to produce their theorysts lesse on the Although women by the many naturess of help subsidies and few miles volume, the Civil Accessments: Board has Aboven no mineration that it

### Certificates Expire in 1949. Unless extended, the reconstray configures of seven of

of 1999. And it is threef of the town cases, a documen master be machine theorem cont. April.

Best reshoration of CoRBs dender policy will come in Best reshoration of CoRBs dender policy. But that it of Monroel Art. Learn and Challenger, Ashines that it of Monroel Art. Learn and Challenger, Ashines threat the second of a year. Willhams revision, both contribution are shined to expan Mary 33, 1994. Asserber straw in the ward will be the Board's striked, bound exchanging maning fooder systems. Almost all of the contribution of the strike and the strike the strike and the strike the strike of the strike the strike and the strike the strike and the strike th

### would be unlikely to gunt any new service to a tarrier it might put out of husiness seen afterward Oritins Leave CAB.

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gressional Avistras Pilley, Storch Alt Seat Von surchive of the Foreign Cod Australia Rock Charram Sough, J (Classed), It, and fish Keneric likely to vigo health their consociations require to disc. They would have laid difficulty in interporting the declaration of pairs, in the Cod Accountation Act 1938 as a canadag for the parameter establishment of short had get unsupportance. The declaration price as the Souriff fact day, "the encouragement and development of an air transmission section reserve dataset for the peams and future reads of the foregy and domestic commerce of the United States, of the postal service and of the automal defense.

Although Congessional Investigations undoubtedly again will focus a specifight on the high sobsides required.

Although Coopensional involutions underbookagen will focus in politight or the high soboletis required by the sheet hind openation, there is lattle bladbood that the death possitiv will be demanded with any degree of manazersty when feeder conflictness come up for misseal Contessities in our mention of beat survice will light hind to been it and there will make their widom known on

Minarskie, the ten active feedenbers have become a significant feeter in the overall described in thempositation pactron. The ten—Floreet, Tenas Tena, Peciniset, Wincesser, Contral, Challenger, Mosanch, Southwest, Wattons, Tingsire and Florids—bear mosts aggregating done to \$14000,000, stream 2000 employes and over 90 transport plants.

By Mar, the feeders were entrying a record \$6,000 parsongers moselfly, with excellent chancers of parting the \$2,000 mil. by August. Profession, the exclosed a selfal block, the two controls found accord \$200,000 in the first quarter of the sear. Defents perinted through April and Mar.

### Truskline Opposition Continues.

Although their element for survival appear good, the feeders will continue to be brained by their erities. Since of the bagger beschlasts helded at the duct bead corden come from the translation.

Once of the transport attacks was recently linearlied by Bestim Air Lauss aquant Florida Airways, the nation's maintain feeder, which has sided CAB for experients.

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stricks on the feeders. But in some former natives to the problem has been such the Profile Department in selling CAS is withfold continuous ment in selling CAS is withfold continuous. The problem is the continuous such as the problem is the problem in the problem in the problem in the problem in the problem is the problem in the prob

THE AVIATION WEEK



AN ACTION EACHED 5 day programs of creatm., proveding the most inspirite, nerve-gropping and enhighening essentiates of modern them; where, come span, international speed priors will atmosp new world's speed records as they compute for \$100,000 (Ministrum) CASH PRIZES

- THOMPSEN TRAFFE ARCI—200 mile high speed hand plane classic of the world
   BINNE TROFFE ARCI—pactuals: transcontinental money dash form. California
- SOSSELAR YEART RACES—closed circuit speed competitions for 190 cu. in. planes
   ALIESAN ST VINNEY MACHINERY I COMPETITION for U.S.
- Air Fosce jet planes

   2000 RESULP TROPET RECE-closed circuit classic
  for P-St, P-SS and P-SS areplanes

   EVAULT TROPET RECE-25 mile connectition for
- INMERNAN INTERNATIONAL PROPET PACE—105 mile free-for-all competition
   A S. ARE MOST, NAVY & MARKETS—in colorful rability.

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 U. S. AIR FORCE, NAVY & MARKES—in colorful exhibitions and demonstrations of the nation's air might Attack this craditional annual renderway of evision.

Assend this condensed immed renderwise of objection.
Order your colors in advance for the best choice of some fire death and other information you con with Empering the Comment of the Co

NEWS DIGEST

MOMESTIC

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AVIATION WEEK, July 19, 2809

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FACT:

Kniser Alaminum not only exceeds the government's wartested sixtude repetitionion, but also consistently settlifies
each manufacturer's own highly competitive students.

FACT:
The record for dependable deliveries of Kaiser Ahminum industry.

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AVENTION WIFEK, July 19, 1960

# Kaiser Aluminum

unes Keiser Alsoninum

product of Permanente Metals Corp.

SCAP DY PROMAININE PROMEIUS COMPANY, KARRE RILO, AMELAND II, OALPIGONIA. WITH GEFFIES IN-Admia Chicago Chumania Gurdand Bulke a Daring's Regular Schopping Scance Chy Lin Angline - Shivarion e Minassipin - New Task - Oakland : Projection - Profession Orn Exchange - Sail Schopping - New Task - Oakland : Projection Orn

# Huge U.S. Turboprop Program Under Way

tebayon development is basically one \$75,000,000 being spent to develop dozen for it report he discount from tarbo engines that reach new peaks in power.

By Robert McLarcon Cop, a alredy is production on it World kedening for the U.S. at the surboorso engine field is experted model by the new Boring XB 55 and development program - shrinky under way-when the first product of

Vol. 49, No. 3,

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Force contractor, Wright Accountral

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Higher earning ratios mena coord stars, transpot efficiencies or lessen

HEADLINE NEWS



### SOCKET SCREW PRODUCTS The "Unbroke" Internal Wrenchuse Bolt (A)

end the 100" Flesh Head Socket Bolt (\$1 are programme of America Connector: And the other popularly occlaraed "Usbrake" Products, plottered to the right, have proved them.

obsolutely demonstrable. Wrote for your room of the informative and useful "Dahouko" Catalog of Socket Screw Freducts. Ask up for the eases and address of your

mannet "Mahasha" and "Hallowell" Indontrial Distributes



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COST 40 TEAS) 14 PROPERTY STANDARD PRESSED

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## sees at the compresser, all difficult on National Held at Fault in Strike

Emergency hoard criticizes carrier's labor policies. Offers proposal to end dispute, but report not hinding. is Industries of the services whereand ground personnel people bound

covined its policies in the light of a Proplement procurate board's feature that NAU,'s memorrant had violated percent birth powered responsation on-Finest's labor mintions collines the emegetary board money parties, the companies effectates emild movide statement of discharged seem plots and relative of stelling elegan) and

rectmenting engines and conspetting ection the relet dupots and offered a procedure to emple NAL and the A union mattery publican of the tu-PNAL Position Difficult-White not be untiled Since the design crasping both designs must be confully coords

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## Berlin Airlift

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DUST PROTO OF NEW CHANCE WING Using a new improved design of sheet powered with two 77 kp Learning on. 162 possible with the drace. More cares shoot channel year Willard F. Contr. Hannborn, Md., myretin, n. conductur pellers. Transfers manufed at one of chess, and fooders has been expend and groups for fight bots on his accord should was sell dow or though the chorsels to course. Band. Fact, showed, what shough was

### George W. Lewis of NACA Dies

Director of aeronautical research for 25 years, he planned the acency's rise to its present leadership.



Dr. Green William Level sotrottory delorate. Internegacion

in 1882. He was employed from Cor. nell Converses in 1966 with a resolution

ton National Ass River of Cleveland Medal Fend, Inc (1938-39), possident, Since 1919-Dr Louis social NACA Society (1999), member, U. S. comsaution, Promunent American Aerosatisfies officer in Namember of that nantural Communican (1941); caret-1 som. He was assent disaster to 1924. Swift of St Louis cold model (1994), Under her placeon, NACA grow during Week War II (1998). He was plest weeth \$5000 to its current value USAF Research ment awage in the week, recluding

Extra appropriation makes romible special development projects. shortly means the Lewis Memorial Air Face is service into bish even on a musber of special research and Dr. Lewis was a member of the comdevelopment projects considered necesratter of judges, Dealed Garwenhouse safe surroll connection (1977.27) ment officed recentisting of \$15,215,000 was perveded for these ewed (1925-10), member board of projects. They are in addition to the award. Mustly memoral model (1929) continuous resouth and development techniques

of Commission model (1996), play- for work on range extresion projects on using

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AVIATION WEEK, Adv 26, 1948

### New Laws

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there shop for commercial six in Avenue measure signed by the P Airber Fleundag-The two rotes by Art Transport Association. One pathecase GAA to moral form on et-

The other measure removes banks ►Thundestorns - The legislaton di-

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spenting faithties on the arrows, is Noched in its pleas to blocked the country with approductional body Pilor Troffic Control - CAA at on-Denuency radio prove installation floriged to trans government and evel-USAF's request for sets power ever are personnel for air mulie coursel.

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ROPENC SCOUR CRES A TIPE Aver Green' Force' L-IS laters place purpose to had the dissignified Scott on he leaken down for salife and basical shared a figure CAT financincular Eases showd a pleast in less those on boas by a whote shows parts of uless being account. for mine name. Unleading and reasonably against shifting about mode the appear engatile sheat the mast time. Top, the case . dock of the C-97,



### MacCready New Soaring Champion

Paul B. MecConsly, p., San Marian, also ra on LE-10 A, Store Benner, Sto-Colds, who the 15th National Scorney Steel, Fla. in a Keyler Kite, Loke Missey, Contest at Electra, N. Y., with a total Detroit, in the Minimum and Dail. of 1012 points. He few a 10 versold The 22-year-old MacCarab who is forms limitate of Technology guide the longest usuale flight of the treelec-dis-wert, a 222-sole tray to Mintickeld, Ohio, near Clearland. It also was the

OK's Revival Try learned flight made from Harry 21dl at in header high performance risker. Zinomi, with 943 power, melecting a of gloom over the future of NAA, flight that critical from 178 males to whose treases in law and where 73 New Malway, Mil., on his best effort of "NAA cannet are on as it is today." With Popus, channes of NAA's

NAA Convention

a 145 cm, trap to Teck, Pa., 167 us. "good" flight to Treates, N. J., 141 us. Beler, N. Y. and the 222-cu, flight the delicates and members that NSA The stream new above \$1500 for local "NAA does a tremendeur job MacCreedy in print, rachiting the potentiale," and Power, "all out of year, defler we can continue our redocal ties delegates-expectable the resolutions committee-haved their collective at 000 and the most prim thoses, \$12,facts to the beautit of reveraping and

and best sooms contest ever held at 70. the report number of salphoes, Others of the first tro, is order of points totted up Resolutions need pound to further Dre Pellasi, Borsche, Vo., plotog NAA as a service argumentos Charles the French Air-110, Ray Finker, Twenty-Nine Falos, Giff., in the Two Offer chaster, has to for one. Ried Midret, Bull Countrie, Chattopogs, or the Minemas; Futs Countchales weeker printeston, strangtoo, Marri, in a Letter-Kauffron LKment of transportation to and from not could not seek to do up obsystem 10 A. Fritz Schol, Hawesteid, Fla., seports, recrystion of hotel accounts— in the federal react neutron

distant, and other sectioner to air laster more NAA activity to local core. \* Public Education. The delevates also Porce recognil that NAA and AOPA ought to be offiliated

members. Femaletry of environing the Accessed and Flight Plan, roll be POSermals the clotter season Loan

president of the association. He rec-Comes, Weston, Mass., rs a Schwesser Moint Other allows excepted year resident, Robort M. Pholos, NAS. natesper in Washington, secretary, Mrs. William Berver, Almon, Chin, subject Internet, Mar Swamen Edward Swarzey, Northwestern Usa versity. Change, second vice prendest, say Predacts, Inc., Claydrad, vice provident-air safety, Janese Lederer, product. Plots Sales Pornataton New York City, vice nepselvation vice persolent ATA, Washington, E. N. Angus, Oskhu, N. J., vice parti-dest-sisports, Cal. D. H. (Al) New,

> Constitutionality of the second or acgotution act (1949) has been upheld All relitary sample propagations for food \$740 m rubect to convolues of the resorctation sat. This applies to all second prime and subcontractors Supreme Court test was soldy on the combinationality of the act and profit determinations made under the set. The court she raied that a comamount of ences profits the governmost sought to recepture under the

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Multi-Purpose Baby Jet

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INDUSTRY OBSERVER the level USAF design competition for a long rouge toologacy bomber.

Borng's entry his fast tarbegrops and will be beavier, and image empty than the comment's shout XB-4. Now award to Borne will get change \* Nove is alarmine on extensive strenger's energional test account for to two Lackbook Constituting transports before rendering a first deci-The 184,006-16, 100-raph places will be operated by a special Newy detailment of my offices and 24 mm commanded by Code William M. Colles, w., ferner NATS symptom community: Included in the tot progress will be a 5000-sole fight from the Paulic Court to Coass.

netalistice on small helicoptus \* Howard Hosber was be excepted to \$4 his store flying host again any time after Aug. 1. Since Its first brief flight but full the success has undergone several custral surious modifications. Too tests are scheduled to AVIATION CALENDAR been within two weeks ► Gene Min. Dengto test pilet, but wed, told a Les Angeles Chember

of Commerce overtion brockers gathering that on one experimental One, Soldier Plot, Chicago, Pay 19-91 - Science Mintel Salphers Contest, Street, Section of the Science Contest, run of the Doughn Skystresk hat year, put powe to the supline's world stand stoned field; he was clacked at 700 J stoke. The field was studie within 50 ft of the surface of Morre day lake. May said the More Thehaved seelecth" at that speed. This probably is the faster, although The Control of the Co May would have reached a Much number of 186 At standard tempera-

\*Pissecti XB-16, new Air Force believator, will be about twice the rise and susualty of the Navy HRP-I cuspently in service. The Air Foure had of \$900 E. the Arrangation Spiences. Other NACA more weaver are Melon N Goath, William H. McArer and Language A. Clousian. The sented in made available to a pilot who has made "extraording contributions to \* Sweetwing Books XB-47 Stratofet bouster has completed Plaze 1 icouspany) tests and been turned over to the Au Foure for Phase II (USAF)

Highe tests. Major Guy H. Townsend, pilot, and Capt. L. L. Ridley, couldet, will compare the Air Peace Holds test cover for the Place III necgreen, which will exertnee at Moses Lake Are Force Star. Week, No. 2. nest few deer grades the foral 1949 opposyment recessar. Work will include wheels balas, fire blown and manformed conspier, other certain components

► Bristal Theorem turbosoms, hobber of first | Wildows tree presented contrib. nate of the Restab Air Minkstry, has completed a 150-kg, type test during which it was assessed at full theoritic for these minutes each five beam The Thereus furbeprop has been in service for more than 18 sucaths \* Extreme's sensitive control features State-Crift's experimental tandom halcopte: XR-11 new under test for Army at Coned Centest Amport, Clerelele, Cabi: Test plut Knutz Plant reports almost un clareschile lag hetween application of control seel response of craft. Transition Sights will follow mounties of new actor blades, now house believed.

### ENGINEERING & PRODUCTION

Beech Sales \$2 million a month for

current use, other in the heads all Reeck Aresoft Cop. has been averat commercial mera. This accepts of serior about 52 milion worth of sales a month for the first own months of its and sudentes the appearance of the A breakflown of these sales indicates

espect deliverer Considerior commun-

Essectionally Bonards Spaceplace all metal currently assume the party of some bookangs > Military - Military contracts associated end free uptil the maker murchase price is coursed by an averagable legal

the number of Resolventh in our today. \* Two Outs-The measurement search. That is due to the delivery of many that constitutible extract a being shown

are man's consets of new Model 18

Bring maket units for Cor. don at around \$70 per share. Late last year the company inoffered and street at a total even of decident stretchingden and halding shout \$55,000,000 in 4s clised scryles working escribil, it die oetsteeling gratikaation

CW to Call Stock?

by downtic and forces wileyes alone anoral cost per sost mile, this new around a concepted by the Beach mere-

further districted



WORK PORCE GROWS AT BORING WHILE STRIKE GOES OF Attention the Assessment Machania the short With one shell now more than were head. Common over at a tray video Unon chan otherwise, the there-excepts 45 percent massed, the common plans to ski strike in Borney Arrykov Co.'s Studde abod a second shift tador. Establishment but work holded MSCS, including 2217 to. in with resource on Studientstern Selfs. tweed stoken. In one recent there and and the # o as shall change (table) once one-hall day period, eccording to personnel

about 5000 of its good of 10,000 house

water. The s. 4000 boudy waken lencontracting that already has not down

mar poer a small army of weaker from manager Lee Saanson, 1913 bloody workers seeded workers by 1990 AVIATION WIEK, Jan 19, 2940



PAC HAS IT! a high-strength auick-release safety belt

In Civil Air Regulation draft release 47.9, the CAA proposed more

1-----NEW SAFETY RELT · Corlegious marketina syst Quell-colonia marketina application pell of its fire · 1-min medicals with 4 faregord and enther recipions I-----

NAS ADOPTED IT 1... Is NAS 802, the CAA proposal was adopted as a National Afrontic Standards Coverince specification. A CRA ENDORSED IT! The Aurent Owners and Piter Associates in in oficial areas, advo-The new Purely Assessment sufery belt fully must all requirement of the new subsected by believe at a the early belt communically available today

> This Attractive PAC Safety Belt Available for All Private and Commercial Aircraft The Parisic Associate bolt but a highly fixabed, assessive backle, and is appelled with more contrast webbons on are one of the colors. Wite. Evergreen, Beige, Antunn Brown, Bridgeport Geer, Wassion Blee.

Anderson About Solver's Colff. Somes City, Sonor-2000 North Hellywood Way + Burback, Collfornia Cable Addresses PACAIR LINDEN . PACAIR MITCHANGE

AVIATION'S DIDEST AND LARGEST MAINTENANCE AND SUPPLY COMPANY AVEATION WESE, July 19, 1988



Though revolutionary in appearance, the Payson Wite, authors sarely as long-cools and procedure by Thus in the collector bandship does, II S.S. 1846. Used for mucos weren by the leading makers of military. and commercial states of all types, U-S-S Scienters fored admirably mores the strangers sequences for

CONTRACTOR AND STATE COMPANIES, PUTCHESS & COLUMN Comment of the Commen



INITED STATES SYEE

In preparation for its full scale more from Stratlesi, Coon, to Dellas, Tec., Chance Vasely Assett Discoon of United America Come is nestraffing to ley constate posts Federale O Detweller, fermer divisee, has been made accutant general consuges of CV's new Deltas plant Debuille, who some! United Associat is 1933 as time looper of the Post: Miles Aircraft Co. a Whatney Astroft Dresson, will be sented by James J. Golfage, furner

**Vought Names** 

New Executives

Gefger's especially with CV dates ions 1929, when he joined the romcone as anished because. His former ney, who, pance 1946, has been CV's as to extent not, 1900, 1800, 1990, and divisional secondaries Elandley Page 1.00. An agreem Confined E Bart, forcer assistant to purvisor the principal account mass of Milits at a perior reported to be well ► In other personnel developments

Fronty Aviation Corp., Family Division named P. O. Stort selen pagagas. Host win has been admitted by the Parish observed the page of the Parish observed the Parish o can control Coop, concluded Col. James (Othorsh, Streen shiel of Jan All Towns & Westler Fitting Unidon, analyting and theirs with providing, analyting and theirs with providing, officers that providing the form of the providing their streen Col. Providing the control of the other in the Gall country to t Green's Election Eq. stanted 3. I Turber minority vice appropriate is exceed W O buthouse, postpool Furbar has been as-mined with the company state but a pre-

whether the contrast that the contrast was the contrast of the hand. 8 Holes Procision Industrian, for-otted J Lands Florendin, Street manages: "the stinger girlder, ther produced of a congary florends was with the physical process of the con-ception of binding affile and the regulation to binding affile in 1914. Figure to tribeling JEFI in 1944.

Figure N. Berlangtor Commission W. E. cyclates, Van. Briesman dentagateryster in 1915 of the 1915 of th

7-00 PRODUCTION LINE

F 50 "Shorter Stem." which led the list 125 two-cut F-50 tenders. The and coat of short select secondly by the Air Fares, ing orders will corry production to the stud-Austral his. New Air France under the at the extent of one of the from the Rechard. SET # 56x calls der 657 stracked societs and Cald, what

Menagate Phrashed fin appointed to Various Earlie passed experimentes of for single schools production of Forbs has been giving appendicated of U & Systemy Fire plant. Fueld: Administration for made Educated Managani Joseph 19 to pringing a polyment vising annulated Scener Street, Spreads with Councillation, Values Almond, Orea-other manager . Bough it, Friedr has been necessary of commercial ways necessary for the Wardinghouse Lamp Class morring for the Wardinghouse Lamp Class Handley-Page Buys

(McGow Hill World News) LONDON-After loss and tertucus principal creditors. lend proceedings, the bankrapt Miles Assent Co., of Renderg, will soon energy from recovership shees of the

negled to be arread to by other rates show what they would bring at a found rule. These much unclade the transport often (50 of which have built places on feeder services space and survioles of other trees of

the subsidiery with the Meantry of

Supply, and a person of the Mater in which to continue the production The Headey Page commitment honory is conditional uses the recrotines by Miles stackholders and

condition of a new plan which would vote-love the posture courte from \$20,000,000 (\$4,000,000) to only £74,000 (\$280,000). This latest proposal his been per outed by S. R. Hoer, the morrow or pointed but full at the same of the

Domestic Plane Boost McGaw Hill World New

MELBOURNE-Communicationnel redices to the father will use Australian-Miles records still fiying, and the figing school at the Miles' Woodley factors The order two will be operated for va-come purposes by the Department of



### P-80 Still 'Right' After Five Years Original design modified slightly, but aerodynamic shape unchanged through 100,000 hours of flying,

By Robert McLargen but program on the Bell XF-98A, but U.S. let autroft, but with nesformance for metable replactors. the Leekheed reprinciples little manuscripted out Both revealed that the Marwell Dewithout more independed in a new card "by he bood" at it duction from once in accolumnce On its way back to Berbank, John but its pegigal layout, herried setted to World Plot, and on hor seems 180 000 by of fining it a names

tabate to Chance I Web. Inhora the accesso that the rivalue had to be \* Early Interest-Lockbood become 13-Project's Beginning - With cure Mangle from Hall I. Hibbard, v.o. or cherge of engineering, Johnson assem febter to be powered by a Lockberd

had promoted for expect to project relevantes of a formal design personal Flowers, the (then) Marchel Day, whereast of the P.M. they in equation

modection, and upod the compens to production, and reger to common to Max speed (see level) 600 mgh torse sole in World War fit. It was while wortching a demonstra-Boney (mormal) Field, Fla. on Issue 17, 1941 that Carl

W. P. Raham, copiect partners and 39th der the regime was son, and we powered by a de Harifand H 1, de smood by Frank B. Holland of the de Hadlord Fogue Co, Ltd. R ver figure of 2500 lb and was the fest wi curve to use a much sided impeller

It had rimsh bors but flows in the potentive Goster Meters on the The XP50 was taken to Merce Dr. It was not until Jun. 3, 1944 that a the late Mile Serches Lockleed too

trust that production of the de Harib meet the needs of the P-90 General ugine change-over however, sequend referred of the cost. The new motion cost increase in design weight, new mande docts, recised leading great, etc. POrden - Production burns spanoli-

andstrue XP-565s were delected dur-As thitis) order for 100 was placed by the Ast Force and this was successed during the Spring of 1945 to a tend commitment of 2584 applicate. In addition a contact for \$100 Pids was sized with North Auerican Artifice. to be built in its Kinner City pleat By V-J Day, Lockheed had delivered more than 100 PARAs, some of which had been delivered to Air Force main in Italy and English for feed scientists

AVIATION WEEK Jale to nave



For additional data write:

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Bresch Offices DATTON, ONIO - GLINDAUS, CALIFORNIA - MONTRIAL CANADA



Fundamental Date

Lockherd F-80C

Perer Plant . Albano 543.A.21

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14.000 B

Art Squares

SPECIFIED ON QUIPMENT FOR



WHERE fally leaded and giving a demonstration, I was coming so so land on an unfamiliar moway. I did not netted the power lines well they were depends in food of me. Me are seven was only 60 MPH. spelled full choose at once, attempting to elear the lines, or force my way through to a retreat landing . . . as though nothing had happened. No see was burn. The damage was negligible. We all arread that a serious crush had been averand due to the regard stability and safety factors of the Bellunca Gaussie and the fact that of

colors for places, all to be sourced until Assuming Portaling." 

also gradickle for assessme burden models for your personal alone

The propeller with a brain

A RECORD DAYS OF SLIPE AND

has which he has emented on talk

already character matalistics at the the coder compartment contrant an to exter, resulting in large brace. It is the westfaton that bolds down efficiency of the PAR and indentes that contrared my demonstration with the same passengers and, as a result, obtained five

come deduces raidless that have verifier to verifiers in noise orn m. repoyed the threat 400 h, inpopulded consequent appropriate to replace performance Problem of all fearings deflection

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This order has stoce been increased

by 644 F-90Cs, 156 TF-90 two-state tregger, and 50 TO-1 brainer versions

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A single possess differential our cost with the tolpipe, porticularly as event of an earnor halfe and fedore. resultant "makes" and noor games which would nevelop high present or on the natural of the pipe through which law pressure as in Sowing State tests sudcated that a differential of cases of reference on the because recet usual lights indicate errors racks. by a blood bas from the engine corncomprese writes which operates auto effective value of 99.

I di manne taken in ter en heth franci and all faces. This system sequence a wort lells below a preset value near and the becometre control any street F-80s bine alleture here second be-\* Water Impation Clark-The Priff was Water regetion increased engine

These effects todaced the takeoff cost of the distince account without man to all types of the same back new Although these game are consider able, writer rejection autoduced a se-

On V-I Day, however, the North shough a favolage deflection of two . In addition to wing tip States, the sax blod from the engine compensor. To elivate this condition, water in the cales persons, furth refrancely by shatting off the air bleed from the discs is being possed. robot after extensive wood torget but-

stypes type (atthems a fearing under was amply because teak drug was least us that position, actually only 12 percost appeare in dog so compared to a 7 persons increase for the P-31 tree

Further investigations revealed received The tank pervision on and abor effect from the enoughted value of 5.5 to au the way In tests from \$2,000 ft . the P.50 elided 57 ms without the teaks Much 6.75 with the contr barrieled. Structural strength of the wing is Alexes effectivenes a mercared

Two sice tuels can be fitted, the on the powert 4hr. 15 mes. 26 scc. 7500 lb complete with facil The mirror protein is fitted with a

ENGINEERING PRODUCTION



Years and years of

# PRECISION GEARS



gears . . our first ones in 1902, and the pours\* schoduled in our place today. Depyeon these peace his she needed to produce the finest in pee-



treed at intermediate aftendor at an untry defection sub-short 50 nm. "boor" on each models of the P-50 This condition is created by flow this

> of about 3 to or Mark \$50 and a Moffett Field, Cald., it was revealed problem Inchbed recessed coble at 30,000 ft.
>
> \*Amount: Europeant - Contact superment about the P-50 affords a 5 photographic venion, the FF-80.

Radio-controlled stone PAN have

AVIATION WEEK, Adv 29, 1948

# Planning to buy Snow Removal Equipment?

DON'T DELAY TOO LONG!

# ...here are THRFF SUGGESTIONS

( ) Get the facts on Walter Snow Fighters before placing any orders. Learn the many rackswwe feetures which make them the fastest, most thorshord of axy storm and keeping runways open under

Write us for detailed literature 12/17 exploitation Walter & Board Boarding Prins - accounting looking differentials-suspended double reduction drive and other advances which provide super treatmen and high speed clearance, without sleeping or stalling.



ANTATION WITH THE 19 YOUR

PLACE YOUR ORDER NOW! The peri demand for Walter Same Fighters to just sheed. Let us schoolale production and assure delivery of year write before encouting to takes time to haild carefully engineered Walter Sanz Fighters, Switzsche motoria badles and

WALTER MOTOR TRUCK COMPANY MOUNT BYING AVENUE RECERROOD TO GERRIE, YORK BLANK, NEW YORK



# Carries Its Own "FLYING RUNWAY"

ress to the Army's variable flying beyon, the The Parket, standard troop and caren carrier for our aur-transportable Arrey, was originally designed

Steadily refered since its inception, it can now accommodule some of the largest neurons, solviers and modern military tactors Engineers of the Fairchald sear that looks and acts like the track of a tank or

The new anno specials the weight of the landing third of that of the standard wheel sear, It reduces the need for carlood reserve. They extremed a fact of Parkets can deliver a combat soudy force survehere

Fairchild parincers, with their contrience and inacquity, have apain previded a new basic ability in the fast developing techniques of modern military



### Fairchild Hireraft Division of Fairelahl Engine and Airelana Communition, Reportunes, Maryla

## NEPA Now Engineering Problem

Chief engineer of Nuclear Forces for Propulsion of Aircraft project cites high performance and long range.

Development of storage power-for Mass is unbably known about chambras at combestion or supersone cently be Andrew Kolthesky, chief en-► Potential Neted-Holdma that ou-

that the man advertupe of above

formed at the time of the crash. adonton-"dividing" and "rawing." tree contracting within the macter First models of argent employee wadran-openyy plants sell probably re-Shelding now under study in stated to be sleng lines of "plywood" con-

and then condensed in an anywhol condenser The appoly would be such an amendment, evidently would meterials to end in suppression of radio. \* Turbujet is a turbojet power plant. New Board Members Princ's Poloble Future-The serv now good retere present plant is be proved through the compounce, and seen, futurille, as bring about as large as the numerable B-50 as the numerable B-50 had would be used up in thebe Circu continue would be incated as and fixely as the jet nousle, where it for an absolute from the power pinet would exert the properties through

and this would never to see wright.

Strecture of the craft will delive

- Rapid-In the cappet, or exceeds the differer and compround by the to high temperature, facily emerging in, according the property threat existed set Act, pully-consequently The saulet would be very receive

conditions must, however, be pend for by represently present deeps Heact. P Radat-In a social embertor, the more would be at high velocity through Nuclear trategy offers a distinct of viction in rights in that the specific unpulse of a rocket propolical, the amounted from the consentrated as per second, is perportant to the that the "feel" lead would be concern aguers not of the absolute propellied the cutt's C.G., refer then welch weight of the propellest Thus, high

In a chemical replict, the high term steen to mercery. Steen would be hodones and outer are until the scannied by been in the sweets, which Whenes if market energy is used The steam would expend through with a malecular world of 2, era be

the sugar conserv moved a sareboard of theer Los Angeles between compeny psychest, Alden G. Brack, steel company peculient; and Chester A Rady, bucker.





Small was delty at end of ware do near on C 12 holds the fit. It have when you a streeted. Note any the on Peciet is at right proper penting dramp Right and helps hit the weight of the raths. So may be round or lowered as relation to the wheel.

## Services Investigate Utility of Ski Gear

of added undercarriage device to improve versatility Arr Flavor and Navy tests for proving. Bight. As a result, a proportional period. ald goar operation have been employed was added at our of skin to exceed an well sestificacies on vances types of paper patch during rivels ofter traced Navy tests were made with the Booth. Flow of an through a series of holes. 1833 and Douglas R4D (C-47). Skin in the moor attaching the axiol to the were tested fast in Canada, then in six meaner proper sages of attack rappilates office from that on the have storted that spring in Alpha-have. Never sky print D. Material is 2007 days from March Air Face carried do sur fact on Wheth protrate about 1 in code

Air Force and News tests conducted for evaluation Ownerse of R4Ds ups or \$5,000 lb



Now do not investigate both in these or New BAD. Clearer, side, shore all recreas of the new with the wheel installed. AVIATION WEEK, July 29, 1948



### Every Test of Value Tells You-HERE'S THE LEADER!

No matter what your trucks that bring you a new measure of value-features that count in every phase of truck operation; a combination of features you'll find in no other trucks: features of Advance-Design! There're the only trucks that bring you Chevrolet's 3-way thrift-the trible economy of low encepting costs, low unknews costs and the lowest list prices in the volume field! See your Chevrolet

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THE CAN THAT THEATHER ex front out Hested a sold FLM thereby, eithers sub-som-

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# CHEVROLET TRUCKS

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HEROUGHOUT TWO WORLD WARS and the years of peace between, the forecasts of Vickors-Armstrones' deseasers and the skill of their engineers have been responsible for many of the important developments in aviation. Today the high standard of design and craftsmarship established by such sireraft as the 'Virry' athe first overall to fly the Atlantic-the "Wellinston" bomber and the famous 'Spitfin' fighter is meintained by new combat and











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### NEW AVIATION PRODUCTS



Seveletes Humblite Used to test radio confessors to deunit made by Beener Inc. Refreces tion Div. Terryolle, Com Atmos Medels operate on 110v, 68c, angle



ratures are from 1-15 by. Motors are obtainship for 65, 50, and 25c, two-and there-place 206, 220, 440, and 550v.-1750, 1100, 879, 690, 580 ram





Scop-On Flexible Hose ractors remolect in southful from Roenfex Tubes: Co., Packard Darid ing, Plefa 2, Pe Degree of interchancelable years with tope and nor

Scale Plane's Surface of weather, minor obstraces, ands, and self str. is creeketed by Reval Air Core -I D. frame feable traversest No. Intitiar on to 12 can Other features instudy resistance to charging, contract bobbbug, cracking, stranslane, or dentste. Clemed a that frush does not dances suffer and may be removed Units are available to mass from \$ to Terope to 1/20 or ex for both saced

AVIATION WEEK, July 19, Page



mall Mater

Bonding Charg Adventible for second up n milbondens custom clossy made by Thomas Associates, 6631 Abres 59 1 au and 49 in long. Operation is no con-America Calif., with subbar manually tect remople, and shade as accupated compounded to confact electricity.



For RPM, Measurements Sout. Igliousght technically heads Type 14 are modeble from Metron less as 200 caso or up to 10,000 care Uses week 30 or, see 22 ra. do.

### AVIATION WORLD NEWS #



Dokete Steler

### Daytime Radar Reading Eased War-horn device need at Australian nirport to relay

MILEOCUNE-Radar information are transmitted from the radio set on a proceeded to the traffic control official. the field. As allocated styles as used at Mason Airport Solvey by a word declared decision decision which recently The device was developed during the From the stronger has the above connect with a writing point. This soand to Albed suppressor in radar Three Sections-The complete instal The source is intented with a sele-tion of stock, peteriors indig and noting extense and miled sets the The radio, which is it, a conscrite not in the article, with the neral envcred by a perspec milerar. persons window in the district read

(i) The substitut coupoint toes the aspect control building The main indicator is mounted in the consule shows at left above. From here the operator transmits the resting of the unplene positions to the dissight lander in the flight control office. too and moves the light along the truck to the hundren of the average \* All Coult Tought-The operator traces Pressure the botton repose 15 softs the tracks of all second within range

duces a purple-black calenders of the bunking the spot of light cest by the styles, so that the phespher of the Each street is plotted to two.

### 2000 Passengers a Day At Venezuelan Airport

CARACAS - Cleanure - strain Some 20 domestic operators use the plane positions from main indicator to display scroen. Mail and care discounts also have ► 150 Movements a Der-Assure dalle mate 155 Seternational Store confine engineers at the part. Mesowhile the

> it couple of handling fourerque equipment. The government bought age and leveling-new ender war-will Brazil and Argentina Reach Aviation Accord

indice at the worker name and to not postly made Brazil, and you were.

The accord formalises what had been in effort for come time. Bourf's "Pensie do Beaci" is flying regularly to Bueson Under the appropent, other lines

AVIATION WEEK, July 29 1948

O TUCO aircraft engine tabing, aircraft mechanical rubusy and non-oxidized bright fin-Note help, writer abbuster for our own of budge 4 if you

New and AMS specifications periodo Augrafia Tubusz, proved in service, is available to you, together with the knowledge and experience that



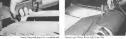
OSTUCO AIRCRAFT TUBING BANSHEE'S BACKBONE



may be approved, but in no case one on Assentine company carry traffic XVIATION WEEK, July 19, 1968









representatives supported. Charry Mind Bloom free production alanam for difficult to reach blind spots in all types of cassably work if analoge, wing, tall growp, and other elected? recombilist one final-oil much feater with Cherry Rivets. Only Cherry Blad Systing gives you a quisher festuring method fully educted to production his monthly work. SHOWN THE PROPERTY CHARACTER STOCK COME THE MITTER WISHING Chang both me derined with pure shork expension



infactionate and manhooth telephones . . . that mants





SHEET SIVES ASS APPROVED BY SIXES ASSOCIATION AND ENGENHEISTY TAXOBATORIES INC AVIATION WICEK, July 29, 1945.

### Australia Tests Flying Wing

MITROPRING Council for Stone the Gelfith type wing plane as port of Criffeth or Environ or a means of writer

mation to evenous sixtures dra they want now need. They probes a mad hapter Atmost, which will be

nution wine. The boundary learn will Airline Suspends Sales

RIO DE INNEIRO-Links Acres Fight resumption perallelates are severy and shareholders have been war-Aviation company currentwer were:

ally formed the shutdown of other small Brazilian lines some Amour the ster spates to the northern and south

Stir Over Airmail Contract

a 292 accept personne on ton of the sombic pound-cale rates at which the

when on Australia-board plans we Principoten upper. The inde-Tens Anatolio Assime, its money field. Union Community has ap-

Alorse As Fore a receiver round

CENTRES IN Marked SINCE IS CARRIED

selling has been paid so for, and at which prount the province of enough South

Austoba imported \$3,900,000 worth

countries That is compared to 55.

BANGALORE-

MELBOURNE-

inter on Sympthole service between lebenseshing and London and super-Department of Civil Avarion The meanwater example is said to have could on 15 by 55 ram, or 4 by 47 stm. RIO DE JANEERO-

Person do Benel clares was "Cower" New Airlines for India Arm to Rio C E "Divo" Monte NEW DETAIL-Too you refer lave been edded to India's list of soled-Creeted temporary certificates rec ured in Harris, Ciolad Trusto. Dolum Jim Arways, which will for Pereto Res. Buccos Ages and Missis

provide sixteen well continue to be paid. In the House of Representatives

was allowed that almost most of the str-

from Medica to this only by may of CARACAS-To build a becking of evel priors Venezetic's Musery of Conguesco World News Briefe surrection Lency Assessal Venereleas to pleasing to extend the ter-

on to New Orleans and French and dende has reade a savery fight over Bisketin Armft 1M. midle amend by the Commonent of India MANUAand Myson province, is second-inleer Moths and Progress Tremer Flaburge Ast Light DCA Puris phone as port of laden drives de-Property of the County second bank on managed think from March to SARENA Teleus Action' Inno-At-

clarie manus in addition to strangely is sharing of dollar. Autoba Ni-tical Admer clean that its Street-NEW DELHI .... Roral Indian Air Force believed of established a record for high-stream en made to an Indian grary outport to the Knower fighting some, cleared a

Ten Renchesalt Bessaum have been added to lada's regator of evol ascoft, sconding to Arabica Air Lines Ltd. Feech surests in Judit and Greion Koht were said to private Add the Boeing B-50 to the growing list of modern aircraft that are canitalizing on the lighter weight, stronger construction and accurate pre-testing of FEATHER-WEIGHT cil coolers.

These modern SEATHER, WEIGHTS and their minimum sociohs and monteum resist ance to extremes of temperature, vibration and shear from natented absolute-allow bracing of their thin all-aluminum sections.

How REATHER, WEIGHTS will perform under actual flying conditions is clearly foreeasted by critical tests in Clifford's wind turnel laboratory, the lurgest, most modern in

the accompation) heat exchanger industry



DEBENDS ON

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# ALL-ALUMINUM OIL COOLERS HYDRAULICALLY-FORMED BELLOWS

### FINANCIAL

### Airline Equity Market Analyzed Confused outlook contributes to adverse psychology-

wide spread noted in carriers' stock performance. In the face of graced roung market, the six transport radiator during the

1947, wisk a recognised index of 65 tix much afternative etmosar in that stocks now more thon 6 percent, the This is mosely a reflection of the low purhase subse contreable service so why tower in safence percent from its onek. Considerable ample, which has propelled all and railread shows with new both removed while valued as a must of the Atias Corp. instructs and databases. All the Affice ing conditions for a number of carriers. mulat performance of all lated milities correct stocks. Along with the efftime highs recorded in late 1945 or

Inscrine in Change and Southern group and have bopes of being me-taged, to will the market atmosphere

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of accusting One class represents the trest conference. The voting treat is

It is intensiting to observe that in ave slatts as does the ser tessaport followed in their descent. Management As circings return to the miles

-Selie Altohol

# Listed Airline Common Stocks 1000 Chicaro & Southern\* 118

AVIATION WITH DAL TO 1940

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P Espectacy-Menty because a con-

Yet this was the recites approach followed by more speculators and in-

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### SALES & SERVICE



FLYING PANEL of IAS percent place man IAS Detail section, Arthur H. Telly house of Debug- left to mild, Coope u., Howard University Food E. Wood Tuesday, proceeding producer of personnelled. Trees A & M. College, Wolfgang Longe regioners, Worse Danvidy, Grove whether, Kelleman messah pint. Funds Locate Lauren M Perish six chan world at taximete.

### Experts Call for Improved Planes Panel of engineers blueprints plane of future at IAS "String forum," held in Derroit, Withits and Dayton, Dr Alcumber McSordy sejection or personal type exclusions

A blusprint for a better personal airheaded by Greyer Leening, consultant crift of the forms emerges from eng- to Delevie Scientisty Formstal, in seeing discusses strenger of the seeing "Merting on Wings" of the of the second angult murach center. Tops A & M. Cellere, Arthur Telly, The storage meeting, held on those secretary metric at Detroit, Wallets. funner Messebuszts acrangaties di vety and countries of the cross Harand Dayton, beauth't a panel of coperts of Flight Salety Foundation, Inc. Week diseased comunications for a Operation as to repelle, engine dat-+ Short takeoff, of 100 to 200 ft · Safe heading or takeoff in 500 ft

 Guarth improved used stobalty for a Controllers our flow over women for . Crossend landing pear a Committedness which would come b Health Londing "We are likely to . Thereasters of trips horsel by her! with a larger load if the acceptant do.

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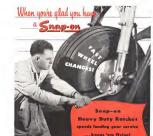
He cated the Cartes Teasure, the tively exceptes and expensive for the His analysis sessioned a pasted space fine and a lift coefficient for takeoff He salled for a unious study of spelcation of Just left devects on personal evenit and an investigation of the amount of 161 coefficient needed for a went alone. He notated out that a hab litt coefficient was represented un Simpler Phine-Week also called for prouch trying amplifying openifican

constants. Make replace for stretch if you knee them slow," he super He called for a phrac which the ndet maid leave alone for two or floor naments at a func, material of two sectons which perceded the Bullinger-Tully report. Yelly asserted a survival 4000 operators out of a total of training program was out He inited that min of 40,000 to 00,000 phones a year, or 10 to 15 per operator, were required to respect the nevert number of operation. The contracts with only 15,000 places sold in 1947, He exceluded that improved nimus which can ster added added

feld persone regeneratests, etc.

tor supposed spend stability, and

Ray Herman, Acroess chief engineer nonted out company peopless of the trained the Beech Researce with the are boundary and proportional



severable earthering mechanism . . . year-after-year dependability . . . these are the features you find

EXTRA powerful investor . . . percision-hells, Henry Dury Ruscher, it's basky enough to basek loose the rightest of those large mets and boles .... its efficient, smooth-working action helps our

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Closeups of the Luscombe Silvaire Sedan





Caused fight view of 2949 Shrant Solve



New Orders for Four-Placer Bring Stepped-Up Production Productus el Luccombe's Medel IIA Sévese Seiza

First detailed performance firster and specifications on 140 mph, craining speed, 110 mph, stalling speed with flops, 55 mph, without flops, 55 mph; sair of cloub at an level with cross lead, 900 ft./man service cellule, 17,000 ft , toloof on, 500 ft; landers of, 500 ft; feel concept, 2 gal, feel consemption at moving 9 gal/fer; sange over Europe Continental E-165 which deliver 165 has at 2050 mm, and 120 kg, (paged creater ha) at 1850 mss. Wingque 35 ft., wing you, 165 sq ft., length 23 ft. (

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### Airport Wins

ventilation, and beaut with lithtern cook States Island Airport is back on its shit from time wheelster from source to a half hour before season The Description of Manne and Aristma out down on the fish's ficing non-deaffer on the sever's artisben Rensee, an outdoor provis man endatednot /Assures Mery Like Cl Educal I McCornel, recordent of

BRIEFING FOR DEALERS & DISTRIBUTORS CHECON ADDROGE SEXENCIAL PROPERTY AND ADDRESS OF THE ASSOCIATION OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PAR DRESCHON ARREST SCHANG-Bryanding against has been deport pers Occup. City, namely by adjusted managers awares, has been deport by helpt Jesses W. Cowinet, Porticol, who colod A length emblated

aspect connect be rectained from researchly operation even if operators at the first door teacher a menum of discussion and conferences to Provide had claimed law from arount decreased the value of their Index Constant raind that remove emission in assentiated some most arround the sick of a beetlessie use of advance wespects which more to some extent manif their encouncil of their own property. He tough an absence of evidence that the switch operators had infed to exercise ressonable concern over correctione, adely and carafort of the plaintiffs.

SALVAGE LAW INVOKED-Laws of solving one being invoked against McFedden Flying Servon, Inc., Holman Faid, St. Pind, in consustion with a lightplane which maked into the Mantagop Force outer fre-Amendo to tree the same who booled it not of the river now ore naking \$600 selvage clean, contending that the Minimings is a nevtenble stream nection with the ADMA-NATA good meetings in Cleveland will be begriv confined to accounter. The show is schoduled for Nov. 15, 16 and and will be netricted to manufacturer members of ADMA. The ADMA screen will be beld at the Staties, while NATA will be meeting

at the Allestat. In addition to the exectings and show, there will be a union of believes conferences between dealers, distributers and manu-SIDE HOS MATELAND AIRSTRIP-CAN be approach means and facility improvements at Mixtland Downtown Americ, Malyspace, and contribution in \$100,000, the minimated quantitated by the sale (\$60). When exempleted the field will be able to handle two-engons please as new feedities will reclude become, national-par lot, and water and ones-

AUTO DEALER USES NAVION-Sample of the uses to which a renearcoad huranermus can put a business place is the willity that [ D Portor, Freix, Tenn., Cleveniet denier in getting out of his four-place. Nerice. Porter area it makes at least 25 houseon tries a month between Peter and office like Manusher for Lands and Nicholle Some of these see made to carry driven to park up automobiles, while other tops no for hashing equipment to Menghin for quick repet, transposting everytives to meetings and conformers and payagating road will fort our dealers could use a plone bike it to end adventage, Porter specie for him to the factory to not delivery of his car-

on takeoff and leading performance we accommend for lightplace palets troocal lightfulness with a view leading of 7.5 lb, so, it, and a power loading of 21 fs. hp. on a flight from New Yest where although in 72 ft. shows not level in Denvir where it is 5321 ft., showing surplug takend in the common and other or more. They make how 601 ft. in New Yest On a lot day of 100 deg, the builts may the takent ma would

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one of the best known and the SERVICE cles. And here are the resonn the state source of eviation notesteam usual. note any all of facult smaller. The exceed only than services offered at the Otion Service sign one thousands officiant and bights skilled. And backing up these products and services in sound "existing minded research." No wender more and more alert alepoets are hancing out the namelor coalders of Cities Cities Service Assisting Consisses Cities Condea Kanlmater and Cities Cordea Assa Mater City Cities Service Class Selvent engine elemen Cates Service Acce Greeces and evention specialty labricants





### Big, Modern Chicago Forge Plant SUPPOUNDED BY MARKETS

Locumbin Corno, Milana, comberbon Chicago. right in the middle of a bour industrial market

This wires in for sale as a whole. It is now in operation and has an outpurding production nomic additional loverances, make it comabbus as and conjugates. Total floor energy is water emparation facilities are excellent. All authors are available through local services.

that it is offered for sale, subject to providens for the national accurity. This record that the reflere the fredhier revier George pear coatroe. Seeled Proposels Invited chase of this property as a whole. Nide will be Office of Real Business Diseased Workinson

by middliche counted and stud at the Office of Real Property Ourseal on Westerston denuted description of this property and for your copy of the Invitation to Bid which will be early an arriver new or all high Transfer of risks well be exhaust to Discourse Order 9905 relation



### AIR TRANSPORT

### New Mail Bate Gives C&S Profit While setting pay high enough to wise out carrier's 1948 deficing CAR birms that force should so up.

reductiv to serious-a policy busine on the dark clouds paked up by heavy post-Carl Arrangator Board in a sweetdelical suit pay to wipe out most than half of the \$1,000,000 describe poorstee defect reported by the current Allerton New Years - CAR's college to except a long suffered by the 16 damentic transitions in 1947. Other But a number, including Austress, Northwest, United and TWA sense. coth on board from the relati by

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wind prevenent But there is little factor of about 53 postest les 1 1945, and Dec. 31, 1947, This prived of must per adjustments for

to log 1, 1945, specifics shelpe scale as innerture or this reductor as on Continued As: Less (Aviernes The rate is fixed to that C&S will alignment with the price and wage 14 costs a revenue plane raile when verse presenger fires 10 percent Free increase talk had about y borns. \* Incestive Provided-Since a one one

Maintan Leads-State June, 1996 Choose & Southern's mm rate had

more than offerts a 1-05-cent drop to med one CAS well have twen caten. company to been, even times present At its feecest syrings mosted par-



NEW HANGAR FOR UNITED One of two houses seconds consend by DC fo at our time. With an associate Unded Air Liber et Chicara Monicinal decides being bounds to varied promis-Aspect, the und has an automore door flow, UAL new occurring more than 235, now of 275 ft. a height of 65 ft., and a 600 og 85 of floor space in hanges, shope 125th, death. It can accompanded there and offers of Charges.

toffe to an assure passenger load AA and SWA \* Higher Ennings Passible-An esta cealmen against unformers develop-ments is nevertal to the extent that the level faccost by CAB. Secularly, an ecocopes the corner's monagement achieves through effective cost

sting costs below the level estimated For the period after C&S extends rate of 21 cents a plane rate at a 60 percent personger lead factor. This

O'C not reeft in the first ay mention of 1945 Under the former rates, a \$100,000 defect for the period speewed months unded Jone 10, 1947, the curare would have storough authority all difficult suct per to veid so everal came about lengthy because of over-But the Board complemental the

to levels that were rewrittend report More Convair-Liners

1. Of the 75 Convair-Liners ordered to be AA. 79 were in stpolar spention carle file most.

## Elect New Officers

America Arrives that determined America Service of the Mey 1947, was appointed a vice occudon't at a recent beard of direction meeting. He will continue to hold the Ted R. Markell is Southwarf's new vaco prondent. He neved the remains m 1941 and his been operations rate



March II Bonce Moundale, American stro so P Other personnel developments

contacts decision, his become the Colonial-Africal M. Hodron, were municipal has been affected un complete Chilispect - William R. Crispect. column described a manager has been Parfe Overse-I Edeia loues was sensual turbic menores. He recreeds

New Fooder for Southwest

report the temporary Scales outificate number the temporary scene terrains The entries had told the Road that

adequate airport facilities are evalable

17 of the 30 years on its means addressed window will be travelled (Assences Wass, June 7). CAB also each side for the first new of seats AVIATION WIFE July 19 1940

conduct with conditions for record remember DC-5 service this surmer over the new scenes, which radiate out All American Hopes

For Feederline Fade All Asserting Assisted's perspects of showing of adequate suspects and on a Sailest dwitten a year that the frenkri rhaled on AAA's nickup matts (but

heavier The heather were port of a under someth accessory before the bury. Md., a temperary portificate to rad Mendand's Staters Show onto new sensor out of Washinston Inc. ston the summer, but CAR Associate Monable, for DC-b, costan-fasired by All American Acustion and Dogin Ascost Co, are make conscream at Dougha' Sunta Morden about. consecut outs arranged in a ray of

eight double seats on the right. One

additional manion will be restricted on

Mir. St. Framend Inner suffered by donotte certes tiece 7AA organily

applied for on \$1 \$ many curbs in 945, together with the enemerted more maker was street consisted levelue of of trefic but yes, upby Tot Assessors Airson for experienand white on the Party Street, Commercial estimic on some substance in the cable mice of introutional mates PAA's of FAA's DC-5 fring bilegation Cost. Not sets of street-one to the institute R. W. Verd Sett. sentrat that plut and the other to said manushmen which for the Later Assesses decides, is shown regeter valenting within each colorier

PAA Pleads for Domestic Boutes

Carrier prepares for last-ditch stand as CAB hears oral arrament this week on application.

> New York, First-Schüler, Baltomore and times but year's solume. "No syph-cotion in CAB barner," TWA concloder. They been founded an frace non New York to Mores PTWA 12tz Taction-Deposition to

No New Fire Rules For Now, Says CAB No con musiques continue bles of all domestic troffic if counted in exwigh competes with PAA salema "Matrioton behand Pau American's The Card Accounties Board has do once and necessity but author revence

mg adequate locities and equipment various of; officple, whose suggest they sufficiely to sension amounts to sequin

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Demonstration of the Spacy districts being one the metalleton in Frank Face child of him E. Louden, V. PAA. expent, the many ambon we deviand in committee with from The perfect it headed up to the senter by

Office Descripted, which their the

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Still Run High

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Piceses Compared-The \$1.055,146 veer is still consultratily higher than

Joint Terminal Plan Ends Willes Rea Arpert Detroit, often a

year of encertion. ATA pressure adod Fraction referred by ANTSON

development of moninformable first

# Airline Deficits Infect to pot the domestic his trans-

Air Transport Booms in China

Cheunsult's sirline flies supplies to blockaded areas, brings got local products-and makes money.

Cod As Transact of Clean los, could contrast menutons When CAT authorized in two years from a colsides completed about crossend lecton of exthelic wer suple treaindags at Sax, the governor ordered a new curwing built to these specifies-CAT we oversized in the number After only 15 months of fluid operaof 1946, powerly to break a bottlereck Nove the bas has read off the \$2,000 . In UNSBA what much that were

mine on in Choose ports, unbig to white for tanking half the person tonnumber of the Phrey There and the race of China's rate shaping and 56 after 25 years as an air some fielder sted, assessed streamer his wartered the end of no netween supply less ► UNERA Loss-He got se UNERA loss of \$7,000,000 to buy equipment and moved mouther \$1,000,000 swears weekhene, Cheumait pecked the C Sect of 15 C-Ms and there C-Ms and 6(D burkless of the Herry correction has been everages better than a mallon. He bookle her ularge from war needer 1357 with a nest of two million too.

was street of 7700 lb. of warting deep neto Cheese Turkenton near the equipment for a net gain of \$400 lb. in psyleod (300 lb to deletag equipment son added). Spenishmer added 10 Bayest bose to CAT operators has 000 Dr. even with a roove load and 40. CAT to upper face, medical supplier in to 2001 ft with a 95,000 th reserve CAT preloads vary fram a 18,000 lb. numerous to 12,000 Ib, secreding to \* Financial Problems-CAT's financial

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\* Drs. Torbins

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Fourth of July Peak

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Precision. Quality

PACIFIC-WESTERN Aircroft

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## SHORTLINES

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door supports to actuate hum of the 12-point seckets. Parchase of these hunkirs in a round

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545, current hubbleton \$51,761 Perees not from \$750 in April to \$400 in ► Tono-Conds-Hos insupervised & sect sovice from Mexical and Torreto to Remade with DC-6Ms

### CAR SCHEDULE

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TORK ANMERICA CORP. A Transfer sections, rest.



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Publica Visial





AVIATION WEEK, July 28, 1948

### F D I T O R I A I

### Important Step in Air Safety

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"The Fight Serry Panalytics will wage a strong, commons. offit canoign without principles will use a respect and establish on system renter where salety education and There has never been a constitution of solds effects between or smoon industry, presented, and reventspences, not a positive of salety lessons or findings. more arreston and alon to salety than the helicidate industry, but the traditional crawillargess of the resource leased from a open in the magnine that a leader crenor last workfied the manufacturer's stem on all of the ananxiousle Sometimes they have considered they in speesibilities halfied if they furnished a featy comfortable

such as estent that they love school to acknowledge Endines of the magnificturer' own almost. The stock

Likeway, part stradayly of fight operation and instruction Trades Appendion how made cinema efforts to dissafety findings have been sparse, and difficult to dig not tien then construent corresponding. The wast are would natified. But the succlemen complements seen sciling is concerned it would be a step own from busconcracy." The unbless was not well be Miles W. Arabid, unless

industry representative on the President's Special Boards To the study of fire committee, there has been evident a onsymbosooly emanting han different spaces. Visions aspects of the publics note being realized by different federal agreement. Cottinic is the independent, non-perfit Foundation

But there is every industries that here evistion has a public spected group of mea of experience and integrity

Aismill Industries Association and Lescourke Airphase Carp, and Pad M Pitts, it, cleff of the wordenlanced brook of the Arry Medical Laborator at Worde Phild.

> ECREATH WOOD AVIATION WEEK, Adv 20, 1948



## FLYING BASIN TRAVELS LIGHT - MADE OF DU PONT "LUCITE"

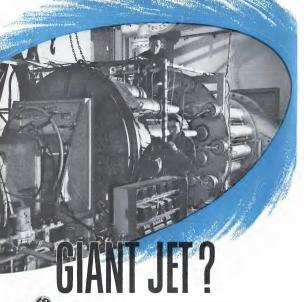


ten Bulletin Write for your copy ... cent and opaque.

Soon was may see became blue this-Weighing only 7% Bu., without fanesio cambines beautiful color with

'pros" light around corners. Amplione filter get hermful ultraviolet rays. "Locate" is result for februated or molded. How about year siresoft? Perhaps





MOTORS AND CONTROL

INSTRUMENTS

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GABIN SUPERCHARGERS

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FOR JET PROPULSION
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This huge structure is not an oversize jet engine, although the resemblance is striking. Actually it's the modern test stand for jet engine turbine elements at General Electric's new jet aircraft gas turbine laboratory in Lynn, Mass., where turbines as large as 30,000 horsepower will be tested under simulated operating conditions.

This fine laboratory is part of the \$25,000,000 center for the development, testing and production of sircraft jet engines. The new facilities are the largest and most outstanding of their kind, and constitute part of G.E.'s long-range program in the jet propulsion field—a program started when General Electric built the first jet engine for the Air Force.

In factories like these, engineered systems, instruments and all types of devices for aircraft are constantly being developed and produced by our experienced aviation technicians. Your nearest G-B office will refer your problem to them. Apparatus Department, General Electric Company, Schenectady S, New York.

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